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☐ 1. Document ID: US 6229452 B1

Using default format because multiple data bases are involved.

L3: Entry 1 of 4

File: USPT

May 8, 2001

US-PAT-NO: 6229452

DOCUMENT-IDENTIFIER: US 6229452 B1

TITLE: ECP train line communications for railway freight car brakes

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kull; Robert C.	Olney	MD		

US-CL-CURRENT: 340/3.51; 246/1C, 246/167R, 303/128, 340/10.33, 340/10.34, 340/933, 701/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Standards	Claims	KMIC	Draw. De
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☐ 2. Document ID: US 6217126 B1

L3: Entry 2 of 4

File: USPT

Apr 17, 2001

US-PAT-NO: 6217126

DOCUMENT-IDENTIFIER: US 6217126 B1

**** See image for Certificate of Correction ****

TITLE: Railway emulation brake

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kull; Robert C.	Olney	MD		

US-CL-CURRENT: 303/3; 303/15, 303/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Standards	Claims	KMIC	Draw. De
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☐ 3. Document ID: US 6163089 A

L3: Entry 3 of 4

File: USPT

Dec 19, 2000

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DATE: Monday, August 23, 2004

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<input type="checkbox"/>	L6	L5 and emulation	4
<input type="checkbox"/>	L5	L4 and brake	18
<input type="checkbox"/>	L4	L2 and locomotive	18
<input type="checkbox"/>	L3	L2 and emulation	4
<input type="checkbox"/>	L2	L1 and train	21
<input type="checkbox"/>	L1	ecp and eot	27

END OF SEARCH HISTORY

US-PAT-NO: 6163089

DOCUMENT-IDENTIFIER: US 6163089 A

TITLE: Railway locomotive ECP train line control

DATE-ISSUED: December 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kull; Robert C.	Olney	MD		

US-CL-CURRENT: 307/151; 307/149

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KVMC	Draw De
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☐ 4. Document ID: US 6102491 A

L3: Entry 4 of 4

File: USPT

Aug 15, 2000

US-PAT-NO: 6102491

DOCUMENT-IDENTIFIER: US 6102491 A

TITLE: Multi-function end of train device for electrically controlled pneumatic freight brake system

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bezos; Angel P.	Rockville	MD		

US-CL-CURRENT: 303/47; 246/167R, 246/169R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KVMC	Draw De
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L5: Entry 1 of 18

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030183729

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030183729 A1

TITLE: Integrated train control

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Root, Kevin B.	Black River	NY	US	
McLaughlin, Bryan M.	Watertown	NY	US	
Stevens, Dale R.	Adams Center	NY	US	
Marra, Jon M.	Henderson	NY	US	
Nickles, Stephen K.	Burleson	TX	US	
Hawthorne, Michael J.	Arlington	TX	US	

US-CL-CURRENT: 246/167R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw De
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☐ 2. Document ID: US 20020153765 A1

L5: Entry 2 of 18

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020153765

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020153765 A1

TITLE: Pneumatic-based communications system

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Levy, Fred	Malabar	FL	US	
Jaynes, Lonnie	Melbourne	FL	US	

US-CL-CURRENT: 303/6.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20020147538 A1

L5: Entry 3 of 18

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020147538

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020147538 A1

TITLE: Entering and exiting ECP mode for an integrated ECP/EAB system

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Marra, Jon M.	Henderson	NY	US	
Stevens, Dale R.	Adams Center	NY	US	
Truglio, James R.	Watertown	NY	US	
LaDuc, John W.	Harrisville	NY	US	
Lewis, Roger B.	Stem	NC	US	
Flint, Kip P.	Castorland	NY	US	

US-CL-CURRENT: 701/70; 701/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 20020050737 A1

L5: Entry 4 of 18

File: PGPB

May 2, 2002

PGPUB-DOCUMENT-NUMBER: 20020050737

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020050737 A1

TITLE: Integrated train electrical and pneumatic brakes

PUBLICATION-DATE: May 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Root, Kevin B.	Black River	NY	US	
McLaughlin, Bryan M.	Watertown	NY	US	
Stevens, Dale R.	Adams Center	NY	US	
Marra, Jon M.	Henderson	NY	US	

US-CL-CURRENT: 303/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 20020049520 A1

L5: Entry 5 of 18

File: PGPB

Apr 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020049520
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020049520 A1

TITLE: Method, apparatus and system for wireless data collection and communication
for interconnected mobile systems, such as for railways

PUBLICATION-DATE: April 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mays, Wesley M.	Coppell	TX	US	

US-CL-CURRENT: 701/19; 701/213

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6676229 B1

L5: Entry 6 of 18

File: USPT

Jan 13, 2004

US-PAT-NO: 6676229
DOCUMENT-IDENTIFIER: US 6676229 B1

TITLE: Interface system from pneumatic to electrically-controlled pneumatic brake
systems

DATE-ISSUED: January 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Marra; Jon M.	Henderson	NY		
Truglio; James R.	Watertown	NY		
Stevens; Dale R.	Adams Center	NY		
McLaughlin; Bryan M.	Watertown	NY		

US-CL-CURRENT: 303/7; 303/86

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 6668216 B2

L5: Entry 7 of 18

File: USPT

Dec 23, 2003

US-PAT-NO: 6668216
DOCUMENT-IDENTIFIER: US 6668216 B2

TITLE: Method, apparatus and system for wireless data collection and communication
for interconnected mobile systems, such as for railways

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mays; Wesley M.	Coppell	TX		

US-CL-CURRENT: 701/19; 340/438, 340/536, 340/538

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw De
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☐ 8. Document ID: US 6648422 B2

L5: Entry 8 of 18

File: USPT

Nov 18, 2003

US-PAT-NO: 6648422

DOCUMENT-IDENTIFIER: US 6648422 B2

TITLE: Integrated train electrical and pneumatic brakes

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Root; Kevin B.	Black River	NY		
McLaughlin; Bryan M.	Watertown	NY		
Stevens; Dale R.	Adams Center	NY		
Marra; Jon M.	Henderson	NY		

US-CL-CURRENT: 303/7; 303/15, 303/20, 303/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw De
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☐ 9. Document ID: US 6484085 B2

L5: Entry 9 of 18

File: USPT

Nov 19, 2002

US-PAT-NO: 6484085

DOCUMENT-IDENTIFIER: US 6484085 B2

TITLE: Entering and exiting ECP mode for an integrated ECP/EAB system

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Marra; Jon M.	Henderson	NY		
Stevens; Dale R.	Adams Center	NY		
Truglio; James R.	Watertown	NY		
LaDuc; John W.	Harrisville	NY		
Lewis; Roger B.	Stem	NC		
Flint; Kip P.	Castorland	NY		

US-CL-CURRENT: 701/70; 246/182B, 303/15, 303/20, 303/22.6, 701/19, 701/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KMIC	Draw De
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☐ 10. Document ID: US 6435624 B1

L5: Entry 10 of 18

File: USPT

Aug 20, 2002

US-PAT-NO: 6435624

DOCUMENT-IDENTIFIER: US 6435624 B1

TITLE: Railway locomotive brake controller

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kull; Robert C.	Olney	MD		
Dimsa; Robert D.	Jefferson Hills	PA		

US-CL-CURRENT: 303/15; 303/16, 303/3, 303/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KMIC	Draw De
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☐ 11. Document ID: US 6334654 B1

L5: Entry 11 of 18

File: USPT

Jan 1, 2002

US-PAT-NO: 6334654

DOCUMENT-IDENTIFIER: US 6334654 B1

**** See image for Certificate of Correction ****TITLE: Integrated train electrical and pneumatic brakes

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Root; Kevin B.	Black River	NY		
McLaughlin; Bryan M.	Watertown	NY		
Stevens; Dale R.	Adams Center	NY		
Marra; Jon M.	Henderson	NY		

US-CL-CURRENT: 303/7; 303/15, 303/20, 303/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KMIC	Draw De
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☐ 12. Document ID: US 6229452 B1

L5: Entry 12 of 18

File: USPT

May 8, 2001

US-PAT-NO: 6229452

DOCUMENT-IDENTIFIER: US 6229452 B1

TITLE: ECP train line communications for railway freight car brakes

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kull; Robert C.	Olney	MD		

US-CL-CURRENT: 340/3.51; 246/1C, 246/167R, 303/128, 340/10.33, 340/10.34, 340/933,
701/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMIC	Draw De
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☐ 13. Document ID: US 6227625 B1

L5: Entry 13 of 18

File: USPT

May 8, 2001

US-PAT-NO: 6227625

DOCUMENT-IDENTIFIER: US 6227625 B1

TITLE: Two way field tester for EOT device

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gaughan; Edward W.	Greensburg	PA		

US-CL-CURRENT: 303/15; 73/121, 73/39

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMIC	Draw De
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☐ 14. Document ID: US 6217126 B1

L5: Entry 14 of 18

File: USPT

Apr 17, 2001

US-PAT-NO: 6217126

DOCUMENT-IDENTIFIER: US 6217126 B1

**** See image for Certificate of Correction ****TITLE: Railway emulation brake

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kull; Robert C.	Olney	MD		

US-CL-CURRENT: 303/3; 303/15, 303/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KMIC	Draw De
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☐ 15. Document ID: US 6189980 B1

L5: Entry 15 of 18

File: USPT

Feb 20, 2001

US-PAT-NO: 6189980

DOCUMENT-IDENTIFIER: US 6189980 B1

TITLE: Locomotive to ECP brake conversion system

DATE-ISSUED: February 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kull; Robert C.	Olney	MD		

US-CL-CURRENT: 303/7; 303/15

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 16. Document ID: US 6163089 A

L5: Entry 16 of 18

File: USPT

Dec 19, 2000

US-PAT-NO: 6163089

DOCUMENT-IDENTIFIER: US 6163089 A

TITLE: Railway locomotive ECP train line control

DATE-ISSUED: December 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kull; Robert C.	Olney	MD		

US-CL-CURRENT: 307/151; 307/149

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 17. Document ID: US 6102491 A

L5: Entry 17 of 18

File: USPT

Aug 15, 2000

US-PAT-NO: 6102491

DOCUMENT-IDENTIFIER: US 6102491 A

TITLE: Multi-function end of train device for electrically controlled pneumatic freight brake system

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bezos; Angel P.	Rockville	MD		

US-CL-CURRENT: 303/47; 246/167R, 246/169R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Documents	Claims	KWIC	Draw De
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☐ 18. Document ID: US 5873638 A

L5: Entry 18 of 18

File: USPT

Feb 23, 1999

US-PAT-NO: 5873638

DOCUMENT-IDENTIFIER: US 5873638 A

TITLE: Dual purpose end of train device for electrically controlled pneumatic freight brake systems

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bezos; Angel P.	Rockville	MD		

US-CL-CURRENT: 303/47; 73/129

Full	Title	Citation	Front	Review	Classification	Date	Reference	Documents	Claims	KWIC	Draw De
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L1: Entry 1 of 2

File: USPT

May 8, 2001

US-PAT-NO: 6229452

DOCUMENT-IDENTIFIER: US 6229452 B1

TITLE: ECP train line communications for railway freight car brakes

DATE-ISSUED: May 8, 2001

US-CL-CURRENT: 340/3.51; 246/1C, 246/167R, 303/128, 340/10.33, 340/10.34, 340/933,
701/19INT-CL: [07] G08 B 23/02, B60 T 7/12

L1: Entry 2 of 2

File: USPT

Feb 23, 1999

US-PAT-NO: 5873638

DOCUMENT-IDENTIFIER: US 5873638 A

TITLE: Dual purpose end of train device for electrically controlled pneumatic freight brake systems

DATE-ISSUED: February 23, 1999

US-CL-CURRENT: 303/47; 73/129INT-CL: [06] B60 T 15/46[Previous Page](#)[Next Page](#)